TAXONOMIC NOTES ON NORTH AMERICAN MEGASELIA (DIPTERA: PHORIDAE)

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ABSTRACT—Examination of type-material resulted in the synonymy of *Megaselia dakotensis* Borgmeier with *M. halterata* Wood. The latter is recorded as a pest of cultivated mushrooms in North America. A lectotype is designated for *Megaselia agarici* Lintner. The male genitalia of the *M. agarici* lectotype and of a specimen of *M. halterata* are figured.

Recent examination of type-specimens (syntypes and holotypes) in the U.S. National Museum and the New York State Science Museum has resulted in taxonomic changes in the following *Megaselia* species.

> Megaselia (Megaselia) halterata Wood Fig. 1

Megaselia halterata Wood, 1910, p. 196, 202 (male, female). Megaselia (M.) dakotensis Borgmeier, 1966, p. 99. NEW SYNONYM.

Borgmeier described *M. dakotensis* from a series of 7 specimens from South Dakota, California, and Maryland. The specimens from Maryland were taken in a mushroom house. The holotype from South Dakota (USNM) is in poor condition; the wings have been removed from the thorax, the legs and abdomen are missing. The paratypes (USNM) are in good condition.

The holotype and available paratype of *M. dakotensis* were compared with specimens of this species. Representative specimens of *M. halterata* were supplied by E. S. Binns, Glasshouse Crops Research Institute, England. *Megaselia halterata* is an important pest of commercial mushrooms in Europe.

I find no significant differences between the type-specimens of M. dakotensis and the representative specimens of M. halterata. I therefore conclude that M. dakotensis is a synonym of M. halterata.

Megaselia halterata is here reported from North America and is a pest of cultivated mushrooms.

Megaselia (Megaselia) agarici Lintner Fig. 2

Phora agarici Lintner, 1895, p. 401.

Megaselia (M.) bovista: Borgmeier, 1966, p. 102, not Gimmerthal.

Through the courtesy of John Wilcox, New York State Museum and Science Service, Albany, I was able to examine numerous speci-

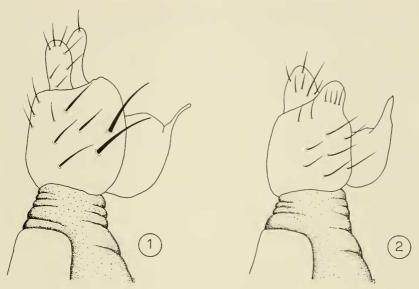


Fig. 1, Megaselia halterata, male epandrium and hypandrium. Fig. 2, Megaselia agarici, lectotype male.

mens of *M. agarici* and designate a lectotype for the taxon. A lectotype is designated herein, since Lintner stated that *M. agarici* (as *Phora*) was described from about 75 specimens of both sexes. There are about 22 specimens (on 5 pins) bearing labels in Lintner's hand that correspond to the information accompanying the original description. The lectotype male, here designated, is labeled: (first label) "October 9, 1894, Mushrooms."

Borgmeier (1966) considered *M. agarici* "provisionally" (but in fact) as a synonym of *M. bovista* Gimmerthal. The latter is known only from Europe. Later, after consulting with Ch. N. Colyer, Borgmeier (1967) concluded that the 2 species were valid.

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